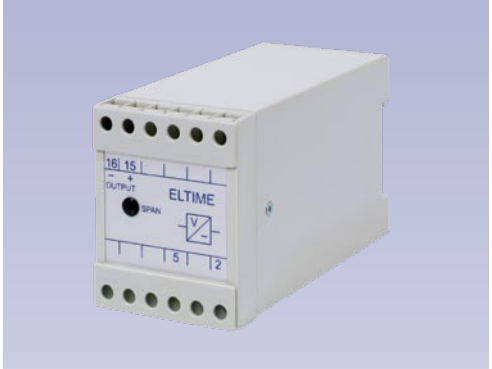


AC Voltage Transducers

Models Available

EVCC Self Powered Zero Based Output
EVCP Auxiliary Powered Live Zero Output
EVCX Self Powered Expanded Scale
EVXP Auxiliary Powered Expanded Scale
EVCR Auxiliary Powered True RMS
EVXR Auxiliary Powered True RMS Expanded Scale

Product Features

- Isolated DC mA or DC voltage output
- Accuracy class 0.25
- Adjustable 'span' and 'zero'
- DIN rail mounting enclosure
- 4kV rms 50Hz 1 minute isolation between input / output / case / auxiliary
- Screw type terminals
- Fingerproof terminal cover included

AC voltage transducers measure AC voltage either directly or through a voltage transformer. The transducer converts the AC voltage signal to either a DC mA or DC voltage output which is directly proportional to the input signal value. The EVCC and EVCP are average sensing rms calibrated while the EVCR is a true rms sensing, rms calibrated transducer typically used for measuring distorted waveforms.

The EVCX, EVXP and EVXR are designed to monitor the deviation of a voltage over a narrow band around the specified nominal voltage. The EVCC and EVCX transducers are self powered whilst all other AC voltage transducers are powered from a large choice of AC or DC auxiliary power options. The 4kV isolated output signals can then be fed to analogue meters, digital meters, PLC's or building management systems.

For converting AC voltage to a proportional DC mA or DC voltage output

Specification

Reference Standard:
- IEC 688, BS 6253, VDE/VDI 2191

Accuracy:
- Class 0.25 (±0.25% f.s. max. error)

Input Voltage, *Un*:
- 50V to 550V direct connected (specify)
- or VT operated

Overload:
- 1.2 x *Un* continuous
- 1.5 x *Un* for 1 second

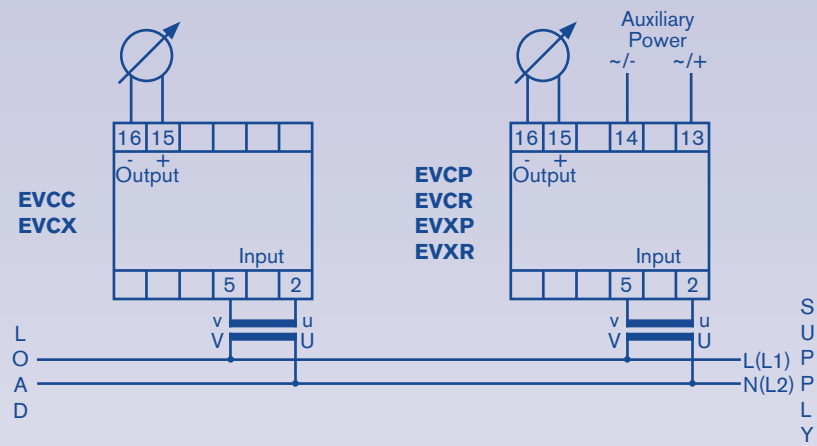
Working Range:
- 0 - 120%*Un* (auxiliary powered)
- 10 - 120%*Un* (self powered)

Frequency:
- 50 or 60Hz
- EVCR / EVXR 40 to 500Hz

Burden:
- < 0.2VA (auxiliary powered)
- < 3VA (self powered)

Weight:
- EVCC, EVCX 350g
- EVCP, EVCR, EVXP, EVXR 600g

Connections



Ordering information

Model	Code	Description
	EVCC	Self Powered - Zero Based Output
	EVCP	Auxiliary Powered - Live Zero Output
	EVCX	Self Powered - Expanded Scale
	EVXP	Auxiliary Powered - Expanded Scale
	EVCR	Auxiliary Powered - True RMS
	EVXR	Auxiliary Powered - True RMS Expanded Scale

Input Voltage	Code	Description
	P1	110, 115 or 120Vac (specify)
	P2	220, 230 or 240Vac (specify)
	P3	380, 400, 415 or 440Vac (specify)
	PX	50 to 550Vac (specify)

Input Deviation/Range	Code	Description
	-	N/A (EVCC, EVCP and EVCR)
	D15	±15% (EVCX)
	D20	±20% (EVCX) 20% (EVXP, EVXR)
	DX	20% to 100% (EVXP, EVXR - specify)

Auxiliary Power	Code	Description
	E0	Self Powered (ECCC only)
	E1	110Vac (±20%)
	E2	230Vac (±20%)
	E3	415Vac (±20%)
	E4	63.5Vac (±20%)
	E5	24Vdc (±20%)
	E6	48Vdc (±20%)
	E7	110Vdc (±20%)

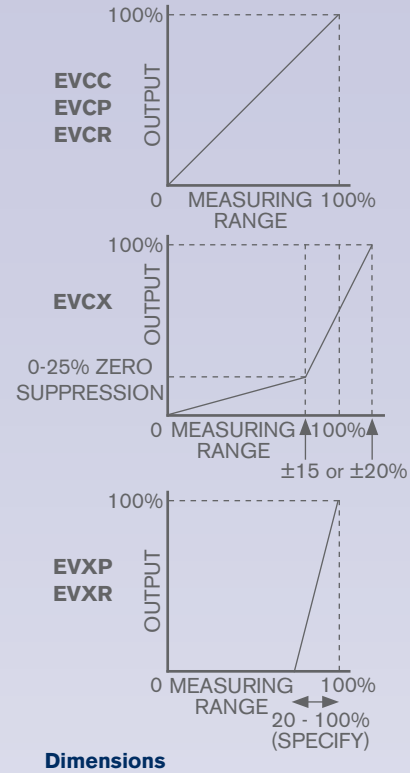
Output	Code	Description
	X1	0-1mA (not EVCX)
	X2.5	0-2.5mA
	X5	0-5mA
	X10	0-10mA
	X20	0-20mA
	XA	4-20mA
	XV	Voltage (specify up to 15Vdc)

EVCX Zero Suppression	Code	Description
	SZ	Upto 25% (specify)
	S0	True Zero

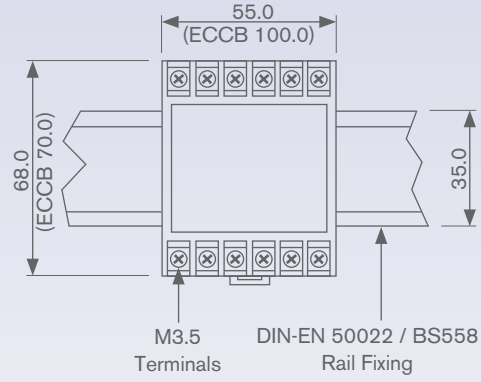
Input Frequency	Code	Description
	F50	50Hz
	F60	60Hz

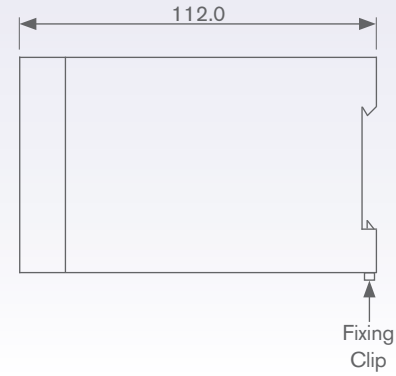
Example	EVXR - P1(110V) - D20 - E1 - XA - SZ - F50

Function Graphs



Dimensions





All dimensions in mm

For pricing, or any further, information please contact Omni Instruments Ltd
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